



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 03rd February 2024

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
- कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र, अंधेरी, मुंबई -400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- कार्यकारी निदेशक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 02.02.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध है।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 02nd February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 03-Feb-2024

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	56781	61962	48331	21123	2514	190711
Peak Shortage (MW)	365	0	0	511	0	876
Energy Met (MU)	1188	1497	1246	442	48	4421
Hydro Gen (MU)	93	40	57	24	9	224
Wind Gen (MU)	18	25	21	-	-	65
Solar Gen (MU)*	108.62	65.93	117.81	2.28	0.64	295
Energy Shortage (MU)	4.64	1.36	0.00	3.63	1.03	10.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62054	73376	61170	21834	2587	218600
Time Of Maximum Demand Met	10:11	11:04	10:28	18:15	17:45	10:30

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.048	0.41	1.12	5.15	6.68	74.77	18.55

C. Power Supply Position in States

Region	States	Max.Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	7722	0	144.5	45.5	0.7	446	0.00
	Haryana	7549	0	146.4	86.8	-0.2	165	1.45
	Rajasthan	17321	0	324.5	118.9	-3.5	196	1.23
	Delhi	5338	0	87.3	74.4	-1.6	209	0.00
	UP	18932	0	337.3	102.8	-2.3	447	0.00
	Uttarakhand	2356	0	44.7	31.7	0.5	240	0.52
	HP	1984	0	35.3	30.9	-0.3	172	0.94
	J&K(UT) & Ladakh(UT)	2927	0	60.2	59.4	-2.5	235	0.50
	Chandigarh	301	0	4.7	4.7	0.0	50	0.00
Railways NR ISTS	172	0	3.4	3.4	0.0	52	0.00	
WR	Chhattisgarh	5366	0	111.4	47.8	-0.6	339	0.00
	Gujarat	20511	0	415.8	164.8	1.3	785	0.00
	MP	16992	0	324.0	200.7	-2.0	635	1.36
	Maharashtra	27650	0	573.5	174.3	-2.0	649	0.00
	Goa	657	0	12.0	12.8	-1.3	30	0.00
	DNHDDPDCL	1272	0	29.1	29.1	0.0	45	0.00
	AMNSIL	888	0	19.0	9.3	0.4	278	0.00
	BALCO	521	0	12.4	12.5	-0.1	7	0.00
SR	Andhra Pradesh	12251	0	227.8	88.9	0.4	723	0.00
	Telangana	14150	0	262.1	119.8	-0.2	945	0.00
	Karnataka	16217	0	296.6	122.7	3.9	1010	0.00
	Kerala	4266	0	86.9	71.3	0.9	329	0.00
	Tamil Nadu	17813	0	363.3	203.4	0.7	1551	0.00
	Puducherry	406	0	9.1	8.8	-0.2	29	0.00
ER	Bihar	4976	340	92.3	87.0	-2.6	287	1.35
	DVC	3153	0	70.4	-40.1	0.4	308	0.00
	Jharkhand	1710	0	30.8	22.5	-1.4	220	2.28
	Odisha	4698	207	101.3	11.4	-0.2	321	0.00
	West Bengal	7194	0	145.2	18.4	-2.3	327	0.00
	Sikkim	124	0	2.1	1.7	0.4	47	0.00
Railways ER ISTS	16	0	0.0	0.1	-0.1	10	0.00	
NER	Arunachal Pradesh	158	0	2.9	2.9	-0.1	45	0.00
	Assam	1403	0	27.0	23.3	1.2	135	0.87
	Manipur	210	0	2.8	2.9	-0.1	35	0.16
	Meghalaya	344	0	6.6	5.5	-0.2	62	0.00
	Mizoram	155	0	2.3	1.7	-0.1	35	0.00
	Nagaland	141	0	2.3	2.3	-0.1	17	0.00
Tripura	223	0	3.8	3.4	-0.4	29	0.00	

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-7.1	-12.0	-19.8	-18.2
Day Peak (MW)	-503.0	-331.4	-1049.0	-770.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	226.9	-278.9	203.4	-161.3	10.0	0.0
Actual(MU)	218.8	-292.7	226.6	-168.9	9.8	-6.4
O/D/U/D(MU)	-8.0	-13.8	23.3	-7.6	-0.2	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7761	7509	5298	4762	697	26027	52
State Sector	7861	7287	5066	3232	380	23825	48
Total	15622	14796	10364	7994	1077	49852	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	733	1677	741	671	11	3832	80
Lignite	31	14	51	0	0	95	2
Hydro	93	40	57	24	9	224	5
Nuclear	31	40	52	0	0	123	3
Gas, Naptha & Diesel	17	54	7	0	23	101	2
RES (Wind, Solar, Biomass & Others)	149	94	189	4	1	437	9
Total	1055	1919	1096	699	43	4812	100

Share of RES in total generation (%)	14.11	4.91	17.22	0.58	1.49	9.07
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.00	9.11	27.22	3.99	22.95	16.32

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.011
Based on State Max Demands	1.043

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	218600	10:30	321
Non-Solar hr	196202	18:44	697

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 07:00 to 17:00hrs and rest are Non-Solar Hours

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 03-Feb-2024

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	1008	0.0	17.5	-17.5
4	765 kV	SASARAM-FATEHPUR	1	4	552	0.0	7.6	-7.6
5	765 kV	GAYA-BALIA	1	0	791	0.0	11.5	-11.5
6	400 kV	PUSAULI-VARANASI	1	45	31	0.1	0.0	0.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	90	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	2	842	0.0	7.5	-7.5
9	400 kV	PATNA-BALIA	2	0	848	0.0	11.8	-11.8
10	400 kV	NAUBATPUR-BALIA	2	0	449	0.0	7.4	-7.4
11	400 kV	BIHARSHARIF-BALIA	2	0	336	0.0	3.9	-3.9
12	400 kV	MOTIHARI-GORAKHPUR	2	13	376	0.0	4.8	-4.8
13	400 kV	BIHARSHARIF-VARANASI	2	0	396	0.0	6.7	-6.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	153	0.0	2.1	-2.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.7	83.1	-82.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1332	0.0	21.3	-21.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	251	998	0.0	10.8	-10.8
3	765 kV	JHARSUGUDA-DURG	2	0	754	0.0	15.5	-15.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	733	0.0	13.2	-13.2
5	400 kV	RANCHI-SIPAT	2	32	338	0.0	4.4	-4.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	169	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	16	167	0.0	1.6	-1.6
ER-WR						0.0	69.7	-69.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	503	0.0	11.3	-11.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	14	0	0.0	0.0	0.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3007	0.0	57.2	-57.2
4	400 kV	TALCHER-I/C	2	1931	0	44.0	0.0	44.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	68.5	-68.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	51	23	0.2	0.0	0.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	784	41	4.9	0.0	4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	126	13	0.8	0.0	0.8
ER-NER						5.9	0.0	5.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	704	0	16.6	0.0	16.6
NER-NR						16.6	0.0	16.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3019	0.0	72.3	-72.3
2	HVDC	VINDHYACHAL B/B	-	437	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	976	0.0	14.9	-14.9
4	765 kV	GWALIOR-AGRA	2	0	2487	0.0	27.1	-27.1
5	765 kV	GWALIOR-PHAGI	2	0	1671	0.0	27.1	-27.1
6	765 kV	JABALPUR-ORAI	2	0	1146	0.0	19.7	-19.7
7	765 kV	GWALIOR-ORAI	1	983	0	15.0	0.0	15.0
8	765 kV	SATNA-ORAI	1	0	1250	0.0	20.8	-20.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1305	455	14.9	0.4	14.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2621	0.0	33.2	-33.2
11	400 kV	ZERDA-KANKROLI	1	181	106	1.8	0.2	1.6
12	400 kV	ZERDA -BHINMAL	1	553	255	3.7	0.8	2.9
13	400 kV	VINDHYACHAL -RIHAND	1	492	0	11.1	0.0	11.1
14	400 kV	RAPP-SHUALPUR	2	423	461	1.9	2.5	-0.6
15	220 kV	BHANPURA-RANPUR	1	151	120	1.0	0.6	0.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	95	4	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	64	29	0.7	0.0	0.7
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						63.5	221.1	-157.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	18.2	-18.2
2	HVDC	RAIGARH-PUGALUR	2	0	5014	0.0	91.0	-91.0
3	765 kV	SOLAPUR-RAICHUR	2	459	2372	0.6	25.4	-24.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2933	0.0	43.8	-43.8
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2815	0.0	44.1	-44.1
6	400 kV	KOLHAPUR-KUDGI	2	1308	0	15.2	0.0	15.2
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	107	1.9	0.0	1.9
WR-SR						17.7	222.4	-204.6

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	-219	69	-120	-2.88
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-238	227	-15	-0.36
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-232	-42	-137	-3.29
	NER	132kV GELEPHU-SALAKATI	-31	-3	-19	-0.45
	NER	132kV MOTANGA-RANGIA	-41	26	-4	-0.10
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	-50	-1.19
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-60	-1.44
	ER	NEPAL IMPORT (FROM BIHAR)	99	0	-31	-0.74
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-430	-118	-361	-8.67
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-923	-426	-726	-17.43
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-770	-739	-757	-18.17
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-126	0	-97	-2.32

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 03-Feb-2024

Export From India (in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	9.12	0.00	0.00	0.34	0.00	0.00	9.46
Nepal	0.27	0.00	8.63	0.00	0.00	0.28	0.00	0.00	9.18
Bangladesh	17.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.43
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	17.70	0.00	17.75	0.00	0.00	0.62	0.00	0.00	36.07

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43

Net from India(in MU)

-ve : Export / +ve : Import

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.43	0.00	-9.12	0.00	0.00	-0.34	0.00	0.00	-9.03
Nepal	-0.27	0.00	-8.63	0.00	0.00	-0.28	0.00	0.00	-9.18
Bangladesh	-17.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-17.43
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-17.27	0.00	-17.75	0.00	0.00	-0.62	0.00	0.00	-35.64